

# **BLADE STRUCTURE FOR CEILING FANS**

## **FIELD OF THE INVENTION**

The present invention relates to blade structure for ceiling fans and the blade is composed of a top plate and a bottom plate which is adhered to the top plate. The top plate includes solid patterns defined in a top and bottom surfaces thereof.

## **BACKGROUND OF THE INVENTION**

A conventional blade for a ceiling fan is disclosed in Fig. 1 and generally composed of a top plate 10 and a bottom plate 11 which is adhered to the top plate 10. The top plate 10 and the bottom plate 11 are both flat ply-wood and the blade is formed to have a flat top surface and a flat bottom surface. Fig. 2 shows the conventional blade is composed of a top plate 20 and a bottom plate 21 which is adhered to the top plate 20. The top plate 20 and the bottom plate 21 are both flat plastic boards. These conventional blades lack aesthetic features and has less structural strength. The production of the plastic boards require expensive mold sets.

The present invention intends to provide a ceiling fan blade that includes a top plate with solid patterns defined in a top surface and a bottom surface thereof, and a bottom plate which is adhered to the bottom surface.

## **SUMMARY OF THE INVENTION**

In accordance with one aspect of the present invention, there is provided a ceiling fan blade which comprises a top plate having solid patterns defined in a top surface thereof and a plurality of ridges are defined in a bottom surface of the

top plate. A bottom plate is adhered to the bottom surface of the top plate at a periphery of the top plate and the ridges.

The present invention will become more obvious from the following description when taken in connection with the accompanying drawings which  
5 show, for purposes of illustration only, a preferred embodiment in accordance with the present invention.

### **BRIEF DESCRIPTION OF THE DRAWINGS**

Fig. 1 shows a first type of conventional ceiling fan blade;

Fig. 2 shows a second type of conventional ceiling fan blade;

10 Fig. 3 is a perspective view to show the ceiling fan blade of the present invention;

Fig. 4 is an exploded view to show the ceiling fan blade of the present invention;

15 Fig. 5 shows the connection of the top plate and the bottom plate of the ceiling fan blade of the present invention;

Fig. 6 shows the connection of the top plate and the bottom plate of another embodiment of the ceiling fan blade of the present invention, and

Fig. 7 shows the blades of the present invention connected to a ceiling fan and light assembly.

### **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

20 Referring to Figs. 3 to 5, the ceiling fan blade 30 of the present invention comprises a top plate 31 having solid patterns 311 defined in a top surface thereof and a plurality of ridges 312 defined in a bottom surface of the top

plate 31. The ridges 312 can be the bottoms of the concave portions of the solid patterns 311. A bottom plate 32 has a top surface 321 which is adhered to the bottom surface of the top plate 31 at a periphery of the top plate 31 and the ridges 321. A plurality of spaces 313 are defined between the bottom surface of the top plate 31 and the bottom plate 32 because of the solid patterns 311. The existence of the spaces 313 makes the blade 30 to be light in weight. A reinforcement ridge 313 protrudes from a central axis of the top surface of the top plate 31 so as to reinforce the anti-bend feature of the blade 30.

The top plate 31 or the bottom plate 32 can be made of ply-wood plate or plastic board. The ridges 312 perform as support posts between the top plate 31 and the bottom plate 2 such that the blade 30 will not be twisted. Known surface treatments can be applied to the top surface of the top plate 31.

Referring to Figs. 6 and 7, the solid patterns 311 can be made as desired so as to match with the style of the interior design.

While we have shown and described the embodiment in accordance with the present invention, it should be clear to those skilled in the art that further embodiments may be made without departing from the scope of the present invention.